

Install and Configure an IOMap Server

Objective

Install and configure an IOMap Server.

Prerequisites

- APP node is configured with appropriate TPS software
- GUS node is configured with appropriate TPS software
- TPS Domain is setup

Introduction

During this lab exercise, you will

- Install TPS System IOMap Server software to GUS node
- Configure the IOMap Server as an HCI Component

Estimated Time to Complete: 1 hour

Procedures

- Perform the following procedures on the **GUS node**:

This procedure should be done anytime TPS System software packages are installed.

Inactivate TPS Applications and Services

✓	Step	Action
	1	At the GUS node, log on as TPSAdministrator.
	2	Select Start > Programs > HoneywellTPS > Configuration Utility .
	3	Select the Configure menu.
	4	Select the Devices/Services menu option.
	5	<div>Note all boxes that are checked so you can select them later.</div> <div><div><input type="checkbox"/> TPSadmin</div><div><input type="checkbox"/> Device Driver</div><div><input type="checkbox"/> Enable</div><div><input type="checkbox"/> LCN File Service</div><div><input type="checkbox"/> BGS_SDService</div><div><input type="checkbox"/> GUS Remote LXS</div><div><input type="checkbox"/> Enable Touch Screen Driver</div></div> <div><div><input type="checkbox"/> TPS Console Operator</div><div><input type="checkbox"/> Services</div><div><input type="checkbox"/> File Transfer</div><div><input type="checkbox"/> CarbonCopy32</div><div><input type="checkbox"/> Enable Integrated Keyboard Driver</div></div>
	6	Uncheck all boxes and then select the OK button.
	7	Close the Configuration Utility.
	8	Shutdown and restart the system.

Install TPS System IOMap Server Software on the GUS

The IOMap Server software package needs to be installed on the GUS node. The IOMap Server package was installed on the APP node when the APP Solution package was loaded.

✓	Step	Action
	9	Logon the GUS node as the TPSAdministrator <u>while holding the <Shift> key down until the screen is at desktop and cursor is the normal arrow.</u>
	10	Insert the TPS Sys Software CD-ROM.
	11	Select TPS System .
	12	When the <i>Welcome</i> dialog displays, read the details and if you agree select the Next button.
	13	Accept the software license agreement terms by selecting the Next button. The <i>User Information</i> dialog is displayed.
	14	Read the Third-Party Software Compatibility Policy and select the Next button.
	15	If this dialog has been used before, the information will be filled in. If not, enter the Name , Company , License No. , and Authorization No. information from your partition sheet and then select the Next button.
	16	When the License No. and Authorization No. have been validated, the <i>Package Selection</i> dialog displays with a list of the available licensed packages. Select the following package: IOMap Server
	17	Select the Install Package button.
	18	Select the Default radio button option for Installation Type and then select the OK button. If you encounter read-only files, select the checkbox and the Yes button to overwrite them.
	19	When all selected packages are installed, select the Exit button to exit the install program.
	20	Select the Yes button to answer the <i>Are you sure...</i> dialog.
	21	Click EXIT on the Software Installation window, then select Yes to confirm.
	22	Remove the TPS Sys Software CD-ROM.

Re-Activate TPS Applications and Services

Once the IOMap software is installed you will need to re-activate the TPS Applications and Services before restarting your computer.

✓	Step	Action
	23	At the GUS node, run the Configuration Utility .
	24	Select Configure → Devices/Services .
	25	Check all boxes that were unchecked when you deactivated the services and select the OK button. (Refer to Step 5)
	26	Close the Configuration Utility .
	27	Shutdown and restart the system.
	28	Log on to the GUS node as TPSAdministrator.
	29	Load the LCN side with the GUS personality.

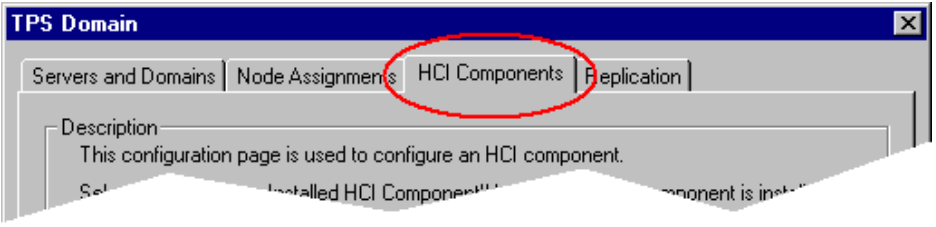
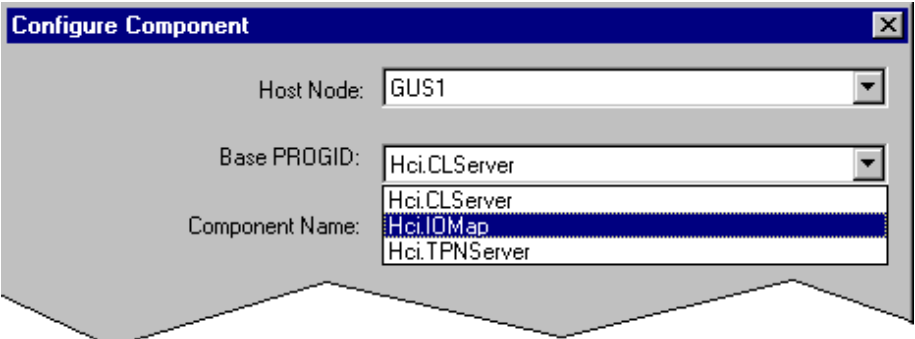
Install TPS Security

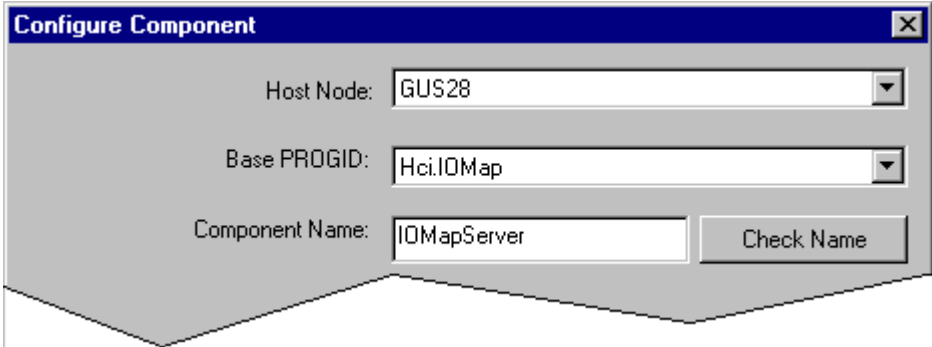
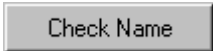

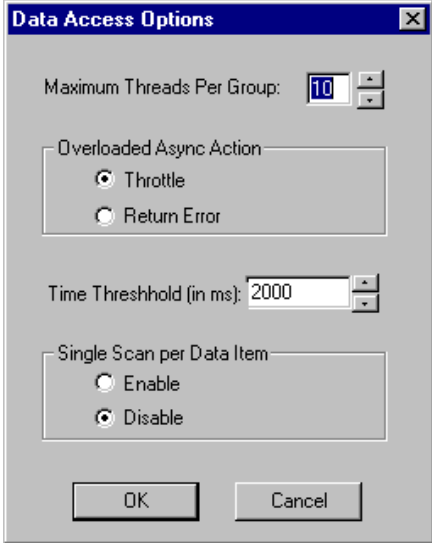
This procedure will set permissions on any registry entries, and any files/directories that were added during the installation of the software.

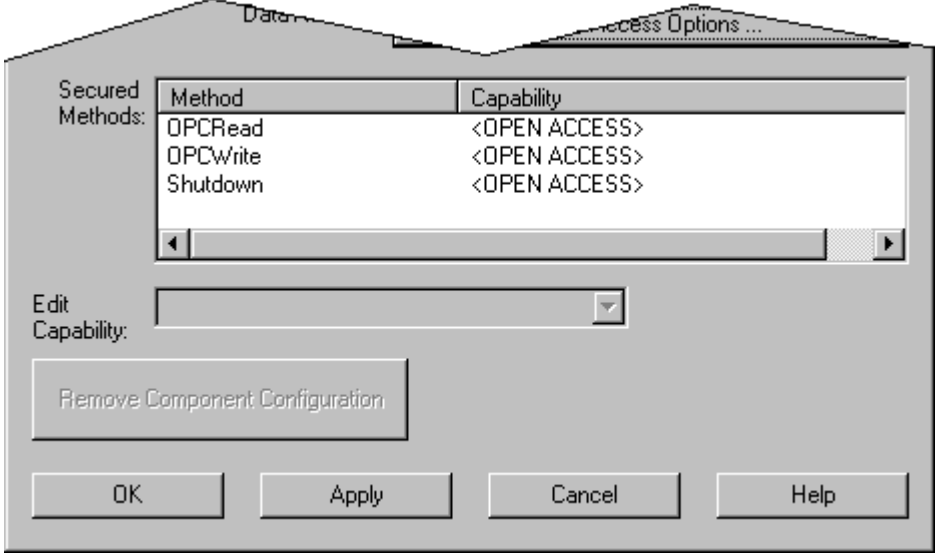
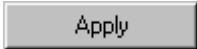
✓	Step	Action
	30	Log on to the GUS node as TPSAdministrator.
	31	Insert the TPS Software CD-ROM.
	32	Click TPS Security Installation .
	33	If the domain name is not correct, enter the NT Domain name listed on your partition sheet and then select the Next button.
	34	In the <i>Configure This Machine as a...</i> window, select the TPS Domain Node radio button option and then select the Next button.
	35	In the <i>Welcome</i> window, select the Next button.
	36	Read the Software License Agreement and accept the software license agreement terms by selecting the Yes button.
	37	If not already correct, enter a Name and Company from your partition sheet.
	38	Enter 1 in the Serial text field and then select the Next button.
	39	Enter C: as the drive letter where the TPS software will be installed and select the Next button.
	40	Select the Typical installation option and select the Next button.
	41	Verify the current settings and select the Next button to begin the security configuration.
	42	Wait for configuration to complete (about 2 minutes). If you get errors, select the radio button to view them and then select the Next button. If you do not get errors, select the I prefer to view the configuration log at another time radio button and then select the Next button.
	43	Select the Finish button.
	44	Select EXIT on the Software Installation window, then select Yes to confirm.
	45	Remove the CD from the drive.

Configure the HCI IOMap Server

Now you are ready to begin to configure the IOMap Server as an HCI Component on the APP node.

✓	Step	Action
	46	Log onto the APP node as TPSAdministrator.
	47	Select Start > Programs > HoneywellTPS > Configuration Utility
	48	Select Configure from the toolbar menu.
	49	Select TPS Domain from the drop-down menu.
	50	Select the HCI Components tab. 
	51	Select Configure Installed Component .
	52	Specify the Host Node: <input type="text" value="GUS1"/> by selecting your Gus from the drop-down menu list.
	53	From the drop-down menu select the Hci.IOMap Server. 

✓	Step	Action
	54	<p>Specify the component name (for example: IOMapServer). This field must be filled in.</p> 
	55	<p>Select the  button.</p> <p>Note: HCI Persistent File Name not used in IOMap.</p>
	56	<p>Select the  button and ensure that the maximum number is 10, Throttle is selected, and the Time Threshold is 2000 ms.</p> <p>These are default values and should be left as they are.</p> 
	57	Select the OK button.

✓	Step	Action
	58	<p>In the Secured Methods data box these settings need to be left as <OPEN ACCESS> for use with IOMap.</p> 
	59	Select the  button.
	60	Select the Yes button in response to “Do you want to continue?”.
	61	Select the OK button
	62	Select the OK button
	63	Select the Replication tab.
	64	Select the Commit Configuration/Replicate button.
	65	When replication is complete, select the OK button.
	66	Close the Configuration Utility.

Build an IOMap using the TPS Builder

In order to test the configuration of your IOMap server, you will build an IOMap for your server to use.

✓	Step	Action
	67	Log onto the GUS node as TPSAdministrator.
	68	Start the TPS Builder by selecting Start → Programs → TPS Builder → TPS Builder .
	69	Select File → New → Project .
	70	Enter Class for the name of the project and select OK.
	71	Close the Class - Equipment window. This is the equipment view of the project.
	72	Select File → Open .
	73	Select the Project radio button.
	74	Select the Class project, and the Control view.
	75	Select the OK button.
	76	Select File → Open .
	77	Select the Library radio button.
	78	Select the IOMap Library and click on OK .
	79	Expand (click on the "+" of) the IOMap Library.
	80	Drag a copy of the IOMap (blue rectangle) from the IOMap Library to the Class project folder.
	81	Enter ClassMap for the name of the strategy and select OK.
	82	Expand (click on the "+" of) the Class project folder.
	83	Right click on the ClassMap IOMap and select IOMap Properties.
	84	Click in the space in row 1 of the Name Column and enter FICPV.
	85	Click in the space in row 1 of the External References Column and enter: /YourTpnServerName/FIC4###.PV Where: YourTpnServerName is the name of the TPN Server you configured, and ### is the Point Partition number from your partition sheet.
	86	Select Grid → Validate → All Items . The entries you just made should become bold, and the data type should be entered.
	87	At the bottom of this window, select the Map Properties tab.

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✓	Step	Action
	88	Enter C:\users\ClassMap.iom for the IOMap Path.
	89	Select the OK button.
	90	Right click on the ClassMap IOMap and select IOMap Build . The build of the IOMap should have succeeded, and the file should have been successfully written to the file specified.
	91	Select the OK button.
	92	Close the TPS Builder.


Build a GUS display that accesses data through your IOMap Server

In order to test the configuration of your IOMap server, you will build a GUS display. This display will access TPN data from an IOMap server that is referencing a TPN server.

✓	Step	Action
	93	Open the GUS Display Builder.
	94	Add a text object to the display.
	95	Add the following script to the DISPLAY: <pre> Sub OnDisplayStartup() HCl.server2.bind "Your_IOMap_Server_Name" ' with quotes HCl.server2.IOMAddMap = "DispMap" HCl.server2.DispMap.IOMLoad = "C:\users\ClassMap.iom" End Sub </pre>
	96	Add the following script to the TEXT OBJECT: <pre> Sub OnDataChange() me.text=HCl.server2.DispMap.FICPV.iomValue End Sub </pre>
	97	Validate the display.
	98	Save the display as c:\users\IOMapTest.pct.
	99	Log off and Log on as engineer.
	100	Select Start → Run .
	101	Enter RUNPIC C:\users\iomaptest.pct.

✓	Step	Action
	102	<p>Verify that data is being read through the iomap server.</p> <p>If you get errors, here are some things to check:</p> <ul style="list-style-type: none"> ⇒ Map item entries (name, external reference) ⇒ Client (display) references (must be in map) ⇒ Security problems: User logged on at GUS, Native Window key position, TPN server Access Level Proxy files, OPC Read method proxy, Default Access Level.

Update the Emergency Repair Disk (ERD) for the GUS

✓	Step	Action
	103	At the GUS node, logon as the domain Administrator.
	104	Select Start → Run .
	105	<p>Enter rdisk /s and press Enter.</p> <p>A Saving Configuration progress bar will appear, then a creation verification message will appear.</p>
	106	<p>Click the Yes button to verify.</p> <p>A floppy insertion message will appear.</p>
	107	Insert the existing ERD into the A drive.
	108	<p>Click the OK button.</p> <p>A Formatting Disk progress bar will appear as the ERD format is taking place.</p> <p>A Copying Configuration Files progress bar will appear as the configuration files are being copied to the ERD.</p> <p>A security precaution message will appear.</p>
	109	Click the OK button.
	110	<p>Remove the diskette from the drive and label it follows: NT ERD – XXXXX</p> <p>Where XXXXX is the name of your computer.</p> <p> ATTENTION: The diskette may only be used to recover NT on the node which was used to create the ERD diskette.</p>
	111	Store the NT ERD in a secure location where it can be retrieved if necessary.